

Matthew Lieb

US Citizen • Security Clearance

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Graduate with a B.S. in Mechanical Engineering seeking a position as a mechanical engineer in the energy, naval, aerospace, or automotive fields. 2+ years designing electrical and mechanical systems in SolidWorks and AutoCAD. Enthusiastic about enhancing efficiency and solving complex problems.

EDUCATION

Lehigh University, P.C. Rossin College of Engineering , Bethlehem, PA IDEAS Mechanical Engineering & Sustainability, <i>Honors</i>	May 2021 GPA: 3.45
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RELEVANT EXPERIENCE

Junior Mechanical Engineer, British Maritime Technology , Arlington, VA	June 2021 – January 2022
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- Created 150+ mechanical and electrical drawings in AutoCAD with GD&T according to ANSI and ABS standards.
- Developed tools in Visual Basic for Applications and Python to automate processes including a voltage drop calculator and a directory automation tool that improved calculation speeds by more than 50%, reducing labor costs.
- Designed a hydraulic winch console in AutoCAD 3D including sourcing materials and controls from various vendors.
- Engaged stakeholders at conferences like the Multi-Agency Craft Conference leading to follow-up opportunities.
- The entire company shut down in January 2022 due to a financial crisis.

Intern, British Maritime Technology , Bozeman, MT	June 2020 – June 2021
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- Implemented a Microsoft Access relational database enabling the management of 300+ electrical loads.
- Coded a power panel optimizer in Excel utilizing a genetic algorithm to minimize negative sequence current.

Technician, OnSite Energy Inc. , Bozeman, MT	June 2019 – August 2019
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- Delivered exceptional service installing 15+ solar arrays for residential and commercial clients including off-grid.
- Assisted in site analysis, used SolarGraf to create site proposals, reorganized shop improving packing speed by 10%.

LEADERSHIP

Secretary, Engineers Without Borders , Bethlehem, PA	March 2020 – May 2021
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- Doubled club enrollment from 40 to 80+ through enhanced virtual presence including virtual club fair and meetings.
- Created SOLIDWORKS models of piping and initial site surveys as part of ongoing water distribution system project.

Community Service Chair , Lehigh Interfraternity Council, Bethlehem, PA	March 2020 – May 2021
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- Planned events attended by more than 100 people including the Lehigh Blood Drive and Spooktacular.

Manager, Lehigh Liners , Bethlehem, PA	September 2018 – May 2020
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- Led 10+ students in raising over \$1,000,000 for the Lehigh fund, tracked caller statistics in Microsoft Excel.
- Spearheaded new incentives to motivate callers by making cold calling more fun and productive.

Eco-Reps Leadership Program , Bethlehem, PA	September 2018 – May 2020
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- Established sustainability initiatives with 30+ participants, for example, a one-song shower campaign that reduced water usage by 5 gallons per shower, performed waste audits, and taught residents about proper recycling techniques.

SKILLS

Computer-Aided Design:

- AutoCAD 2D, AutoCAD 3D
- SOLIDWORKS

Language:

- Proficient in Spanish

Computer Programming:

- Python
- Visual Basic for Applications
- MATLAB
- HTML, CSS, JavaScript
- SQL, Microsoft Access